



PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

James H. Wang et al.

Serial No. 09/753,076

Filed: December 29, 2000

For: Grafted Biodegradable Polymer Blends)

Art Unit: 1711

Examiner: not known

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INFORMATION DISCLOSURE STATEMENT

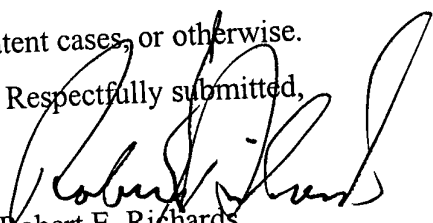
Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

The citation of information on the attached Form PTO/SB/08 is made pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98. A copy of each cited item is enclosed.

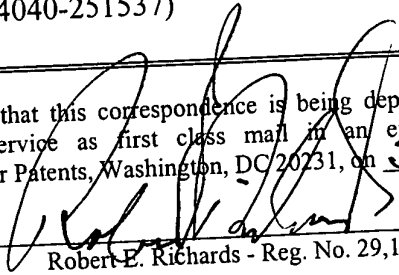
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Respectfully submitted,

  
Robert E. Richards  
Reg. No. 29,105

KILPATRICK STOCKTON LLP  
1100 Peachtree Street, Suite 2800  
Atlanta, Georgia 30309-4530  
(404) 815-6500  
KC Case No: 14996C  
Our Docket: 11302-1060 (44040-251537)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231, on 3-6-02.

  
Robert E. Richards - Reg. No. 29,105

Substitute for Form 1449/A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** (use as many sheets as necessary)

Sheet

of

1

Complete if Known

Application No. 09/753,076  
 Filing Date December 29, 2000  
 First Named Inventor James H. Wang  
 Group Art Unit 1711  
 Examiner Name  
 Attorney Docket Number 11302-1060

## **U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number <sup>2</sup>	Kind Code <sup>3</sup> (if known)			
		5525671	B1	Ebato et al	06/11/1996	
		4284671	B1	Cancio et al	08/18/1981	
		5422387	B1	Toms et al	06/06/1995	
		5583187	B1	Sharak et al	12/10/1996	
		5342659	B1	Horowitz et al.	08/30/1994	
		4933182	B1	Higashi et al.	06/12/1990	
		4826493	B1	Martini et al.	05/02/1989	
		4620999	B1	Holmes	11/04/1986	
		5508101	B1	Patnode et al.	04/16/1996	
		5567510	B1	Patnode et al.	10/22/1996	
		5472518	B1	Patnode et al.	12/05/1995	
		5658977	B1	Yang et al.	08/19/1997	
		5700872	B1	Wang et al.	12/23/1997	
		4229334	B1	Klabacka et al.	10/21/1980	
		3531561	B1	Trebu	09/29/1970	
		3792011	B1	Smith et al.	02/12/1974	
		4367070	B1	Hayashi et al.	01/04/1983	
		4710187	B1	Boland et al.	12/01/1987	
		4762521	B1	Roessler	08/09/1988	
		4770656	B1	Proxmire et al.	09/13/1988	
		4789592	B1	Taniguchi et al.	12/06/1988	
		4798603	B1	Meyer et al.	01/17/1989	
		5057368	B1	Largman et al.	10/15/1991	
		5069970	B1	Largman et al.	12/03/1991	
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Sheet

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Application No.

09/753,076

Filing Date

December 29, 2000

First Named Inventor

James H. Wang

Group Art Unit

1711

Examiner Name

Attorney Docket Number

11302-1060

## **U.S. PATENT DOCUMENTS**

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		Number <sup>2</sup>	Kind Code <sup>3</sup> (if known)			
		5108820	B1	Kaneko et al.	04/28/1992	
		5147712	B1	Miyahara et al.	09/15/1992	
		5162153	B1	Cooke et al.	11/10/1992	
		5202178	B1	Turner	04/13/1993	
		5241066	B1	Davis et al.	08/31/1993	
		5273596	B1	Newkirk	12/28/1993	
		5277976	B1	Hogle et al.	01/11/1994	
		5336552	B1	Strack et al.	08/09/1994	
		5382400	B1	Pike et al.	01/17/1995	
		5508378	B1	Ohara et al.	04/16/1996	
		5593778	B1	Kondo et al.	01/14/1997	
		5783504	B1	Ehret et al.	07/21/1998	
		5637631	B1	Kitada et al.	06/10/1997	
		5691424	B1	Suzuki et al.	11/25/1997	
		5685757	B1	Kirsch et al.	11/11/1997	

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Application No. 09/753,076  
Filing Date December 29, 2000  
First Named Inventor James H. Wang  
Group Art Unit 1711  
Examiner Name  
Attorney Docket Number 11302-1060

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3

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## **FOREIGN PATENT DOCUMENTS**

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		Office <sup>3</sup>	Number <sup>4</sup>			
		EP	0654504	Toyo Seikan Kaisha Limited	04/24/1995	
		WO	92/04412	E.I. Du Pont De Nemours and Company	03/19/1992	
		EP	241178	Rohto Pharmaceutical Co. Ltd.	10/14/1987	
		JP	6-142127	Aicello Chem Co. Ltd.	05/24/1994	
		EP	0080274	Imperial Chemical Industries Plc	06/01/1983	
		EP	0438598	Mitsubishi Rayon Co. Ltd.	07/31/1991	
		EP	0436966	Dai-ichi Kogyo Seiyaku Co. Ltd.	07/17/1991	
		WO	94/17226	Fiberweb North America Inc.	08/04/1994	
		WO	95/10645	Rieter Automatik GMBH	04/20/1995	
		WO	94/10257	National Starch and Chemical Investment Holding Corporation	05/11/1994	
		JP	61-181859	Mitsubishi Petroch KK	08/14/1986	
		WO	96/20738	Kimberly-Clark Co.	07/11/1996	
		EP	0705934	Kimberly-Clark Co.	04/10/1996	
		EP	0210754	Atlantic Richfield Co.	02/04/1987	
		EP	0612773	Mitsubishi Petrochemical Co.	08/31/1994	
		EP	0569153		11/10/1993	
		JP	6-207320		07/26/1994	
		JP	6-207323		07/26/1994	
		JP	6-207324		09/06/1994	
		JP	6-248552		05/23/1995	
		JP	7-133511		05/28/1996	
		JP	8-134723	Yunichika K.K. et al.		X

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First Named Inventor	James H. Wang
Group Art Unit	1711
Examiner Name	
Attorney Docket Number	11302-1060

Sheet 4 of 7

## **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
		Author: Ikejima, T., et al. Title: Infrared Analysis on Blends of Poly (3-Hydroxybutyric Acid) and Stereoregular Poly (Vinyl Alcohol): Influence of Tacticity of Poly (Vinyl Alcohol) on Crystallization of Poly (3-Hydroxybutyric Acid) Pub.: Macromolecular Chemistry and Physics Vol: 197(3) Pages: 869-880 Date: 3/1/96
		Author: Williams et al. Title: Biodegradable Plastics from Plants Vol: Pages: 38-44 Date: 9/1/96 Pub.: Chemtech
		Author: Title: Derwent Publications Ltd., Database WPI, JP 08 212995 (Misubishi Paper Mills Ltd.), 8/20/96 Vol: Pages: Date: 8/20/96 Pub.:
		Author: Title: Derwent Publications Ltd., Database WPI, JP 01 246411 (Sawashita A), 10/2/89 Vol: Pages: Date: 10/2/89 Pub.:
		Author: Title: ASTM Designation: D 1238-95, "Standard Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer," Vol: Pages: 273-281 Date: 1/1/96 Pub.:
		Author: Good, Robert J., et al. Title: Surface and Colloid Science-Experimental Methods Vol: II Pages: 31-91 Date: 1/1/79 Pub.: Surface and Colloid Science-Experimental Methods
		Author: Database WPI Title: Derwent Publications Ltd., Database WPI, EP 640474, (H. Utz), "Laminated Film Manufactured By Vacuum Deposition of Functional Layer Between Two Films" Vol: Pages: Date: Pub.:
		Author: Database WPI Title: Derwent Publications Ltd., Database WPI, JP 6-212511 A, (Unitika Ltd.), "Biodegradable Staple Fiber Useful for Sanitary Napkin" Vol: Pages: Date: Pub.:

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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

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 Attorney Docket Number 11302-1060

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		Author: Database WPI	Title: Derwent Publications Ltd., Database WPI, JP 9-041220 A, (Unitika Ltd.), "Biodegradable Polyester Fiber"	Vol:	Pages: Date:
		Publ.:			
		Author: Dreizenshtok, G.S. et al.	Title: Chemical Abstracts 99(8)54963d, "Cellulose Decomposition in the Sintering of Fibers from Poly(tetrafluoroethylen) Dispersions"	Vol: 3	Pages: 33-34 Date: 1/1/83
		Publ.: Khim. Volokna			
		Author: Fedorova, R.G. et al.	Title: Chemical Abstracts 109(4)24162z, "Composite Fibers From Polyacrylonitrile-Aromatic Polyamic Acid Blends"	Vol: 2	Pages: 11-12 Date: 1/1/98
		Publ.: Khim. Volokna			
		Author: Fedorova, R.G. et al.	Title: Chemical Abstracts 188(16)106639x, "Structural Thermal Stabilization of Fibers Based on Aromatic and Heterocyclic Polymer Blends"	Vol: 4	Pages: 36-45 Date: 1/1/77
		Publ.: Prepr. - Mezhdunar. Simp. Khim. Voloknam 2nd			
		Author: Geleji, Frigyes et al.	Title: Chemical Abstracts 82(14)87465v, "Bicomponent Fiber Structures on Polypropylene Basis"	Vol: 42	Pages: 713-716 Date: 1/1/73
		Publ.: J. Polym. Sci., Polym. Symp.			
		Author: Gusev, V.K. et al.	Title: Chemical Abstracts 96(10)70305j, "Two-Component Acetate Threads"	Vol: 6	Pages: 31-32 Date: 1/1/81
		Publ.: Khim. Volokna			
		Author: Sagatova, M. Sh. et al.	Title: Chemical Abstracts 102(10)80131f, "Structural and Mechanical Properties of Fibers Produced From Mixtures of Polyacrylonitrile and Chlorinated Poly(vinyl chloride)"	Vol:	Pages: Date: 1/1/84
		Publ.:			
		Author: Slizite, G. et al.	Title: Chemical Abstracts 105(26)228372v, "Study of Photochemical Degradation of Articles Produced from Complex Triacetate-Polyamide Fiber"	Vol: 27	Pages: 98-102 Date: 1/1/86
		Publ.: Nauch. Tr. Vuzov LitSSR. Khimiya i Khim. Teknol.			

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		First Named Inventor	James H. Wang
		Group Art Unit	1711
		Examiner Name	
Attorney Docket Number	11302-1060		
Sheet	6	of	7

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		Author: U, Ju Jui et al. Title: Chemical Abstracts 106(12)86124k, "Use of a Reactively Dyed Low-Molecular-Weight Polycapromide for Production of Colored Polypropylene Fibers" Publ.: Khim. Volokna Vol: 6 Pages: 22-24 Date: 1/1/86	X
		Author: Zakirov, I.Z. Title: Chemical Abstracts 96(4)21192M, "Effect of Small Amounts of Polymeric Additives on Structural-Mechanical and Thermal Properties of Synthetic Fibers Spun By a Wet Method" Publ.: 3-i Mezhdunar. Simpoz. po Khim. Voloknam, Kalinin, 1981, Vol: 5 Pages: 105-110 Date: 1/1/81	X
		Author: Zakirov, I.Z. Title: Chemical Abstracts 102(22)186548n, "Temperature Transitions in Polyacrylonitrile-Fibroin Mixtures" Publ.: Vysokomol. Soedin., Ser. B Vol: 27 Pages: 116-120 Date: 1/1/85	X
		Author: Zhao Delu, Xue Du et al. Title: Chemical Abstracts 105(12)99049u, "Applications of Controlled Degradation in Polypropylene Tape Yarns" Publ.: Suliao Vol: 15 Pages: 5-10 Date: 1/1/86	/
		Author: Title: Chemical Abstracts 114(22)209209s: abstract of laid open Japanese patent application JP 3040865 Publ.: Vol: Pages: Date:	/
		Author: Title: Chemical Abstracts 119(12)119421d: abstract of laid open Japanese patent application JP 5093316 Publ.: Vol: Pages: Date:	X
		Author: Title: Chemical Abstracts 119(12)119422e: abstract of laid open Japanese patent application JP 5093318 Publ.: Vol: Pages: Date:	X
		Author: Title: Chemical Abstracts 119(24)252062d: abstract of laid open Japanese patent application JP 5163616 Publ.: Vol: Pages: Date:	X

Examiner Signature	Date Considered
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Attorney Docket Number	11302-1060				
Sheet	7	of	7		

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		<b>Author:</b> Title: Chemical Abstracts 120(8)79336s: abstract of laid open Japanese patent application JP 5093317 <b>Publ.:</b> Vol: Pages: Date: ✓	
		<b>Author:</b> Title: Chemical Abstracts 122(2)12043s: abstract of laid open Japanese patent application JP 6212548 <b>Publ.:</b> Vol: Pages: Date: ✓	
		<b>Author:</b> Title: Chemical Abstracts 122(2)12091f: abstract of laid open Japanese patent application JP 6248515 <b>Publ.:</b> Vol: Pages: Date: ✓	
		<b>Author:</b> Whittington, Title: Whittington's Dictionary of Plastics Lloyd R. <b>Publ.:</b> Vol: Pages: 258 Date: 1/1/1968	
		<b>Author:</b> Sperling, L.H. Title: Graft Copolymers <b>Publ.:</b> Introduction to Physical Polymer Science, Chapter 2, Vol: Pages: 44-47 Date: 1/1/1986	

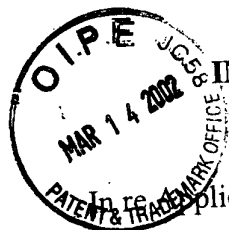
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.



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James H. Wang et al.

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) Art Unit: 1711

) Examiner: not known

) **CONFIDENTIAL**  
) **COMMUNICATION**

APPENDIX A

Assistant Commissioner for Patents  
Washington, D.C. 20231

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Sir:

Applicants respectfully request that the Examiner review the below-listed Kimberly-Clark patent applications. A copy of each listed application is enclosed. Please review and initial each listed application and return a copy of the initialed Appendix A to the Applicants.

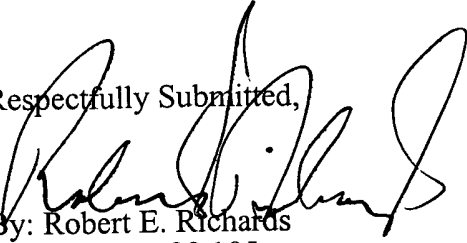
The serial numbers of the below-listed U.S. patent applications are listed on this form as provided in MPEP §609(D), rather than a PTO/SB/08 form, to avoid the serial numbers of the pending U.S. patent applications being published on any patent that may issue from this application. **Applicants do not waive the confidential nature of any of the above-listed patent applications.**

- \_\_\_\_\_ 1. U.S. Patent Application Serial No. 09/753,075 filed December 29, 2000.
- \_\_\_\_\_ 2. U.S. Patent Application Serial No. 09/752,810 filed December 29, 2000.

Serial No. 09/753,076

- \_\_\_\_\_ 3. U.S. Patent Application Serial No. 09/753,223 filed December 29, 2000.
- \_\_\_\_\_ 4. U.S. Patent Application Serial No. 09/753,077 filed December 29, 2000.

Respectfully Submitted,

  
By: Robert E. Richards  
Reg. No. 29,105

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Suite 2800  
1100 Peachtree Street  
Atlanta, Georgia 30309  
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KC Case No: 14996C  
Our Docket: 11302-01060 (44040-251537)